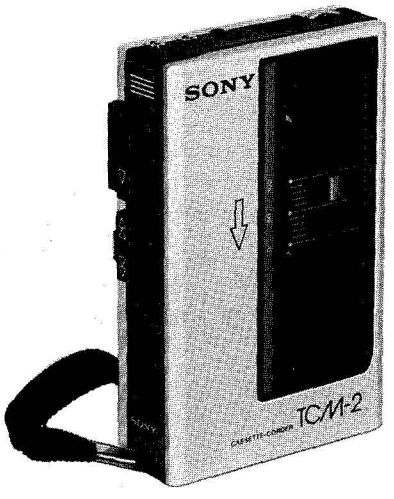
TCM-2

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



SPECIFICATIONS

Tape Transport Mechanism Type	MT-2-06

Recording system	2-track 1-channel monaural
Speaker	Approx. 4.5 cm ($1^{13}/_{16}$ inches) dia.
Fast winding time	Approx. 2 min. with Sony CHF-60 cassette
Frequency response	150–8,000 Hz
Input	Microphone input jack (minijack) sensitivity 0.2 mV (–72 dB) for low impedance microphone
Output	Earphone jack (minijack) for 8–300 ohm earphone or load impedance 10 kilohms or higher
Power output	350 mW (at 10% harmonic distortion)
Power requirements	3 V dc, 2 batteries IEC designation R6 (size AA) 120 V ac, 60 Hz with optional Sony AC-39 ac power adaptor (US, Canadian Model) 220, 240 V ac, 60 Hz with optional Sony AC-37 ac power adaptor (AEP, UK Model) 110 or 120, 220 or 240 V ac adjustable with optional Sony AC-92 ac power adaptor (E Model) 12 V car battery with optional Sony DCC-127A car battery cord
Battery life (continuous recording)	Approx. 3 hours with Sony SUM-3(NS) New Super batteries or Eveready No. 1215 Heavy Duty batteries Approx. 5 hours with Eveready No. E91 alkaline batteries
Dimensions	Approx. 84.7 × 132 × 31.4 mm (w/h/d) ($3^3/_8 \times 5^1/_4 \times 1^1/_4$ inches) not incl. projecting parts and controls
Weight	Approx. 250 g (8.9 oz) not incl. batteries Approx. 290 g (10.3 oz) incl. batteries

MICROFILM

CASSETTE CORDER

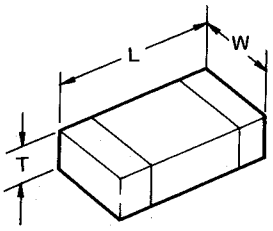
SONY®

TC

SERVICING NOTES

Chip components

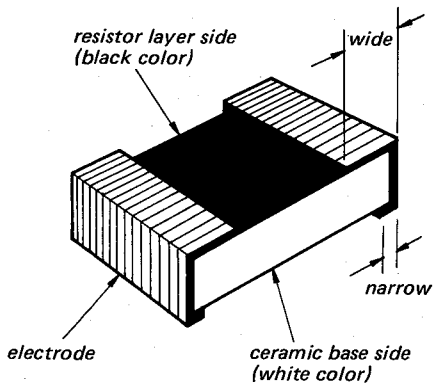
Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.
In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.
Dimension of transistors and capacitors



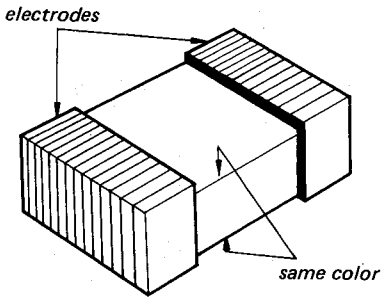
(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

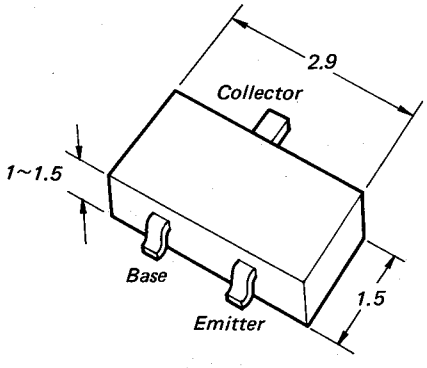
Identification



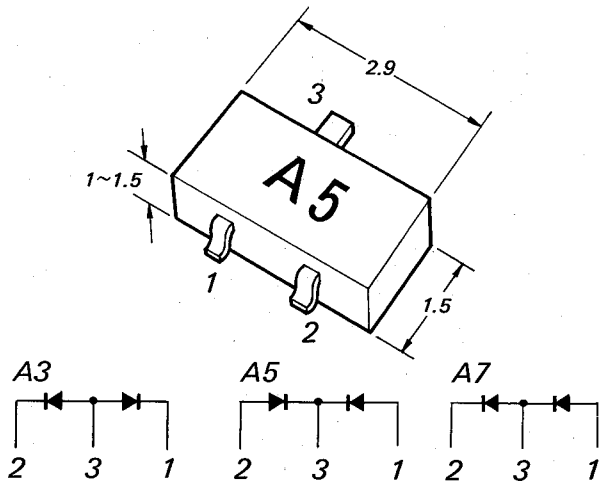
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

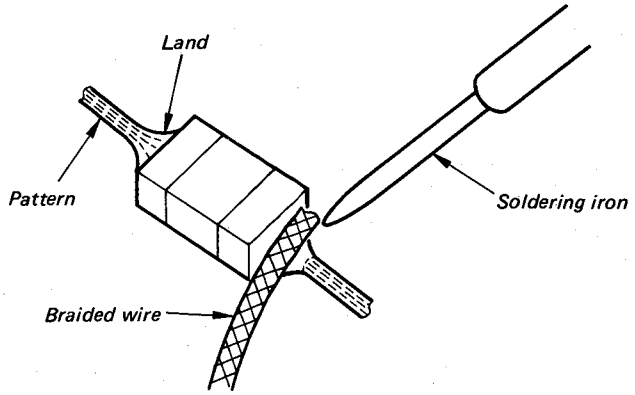
Precautions for replacement

1. **Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.**
2. **Never re-use a disconnected chip component. Dispose of all old chip components.**
3. **To protect the chip component, heating time for attaching the component should be within 3 seconds.**

○ Removing chip components

(1) Removing solder at electrode

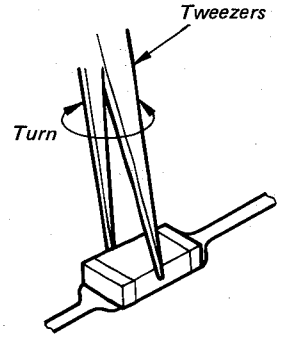
Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.

Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

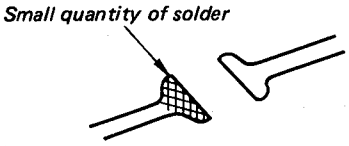
After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

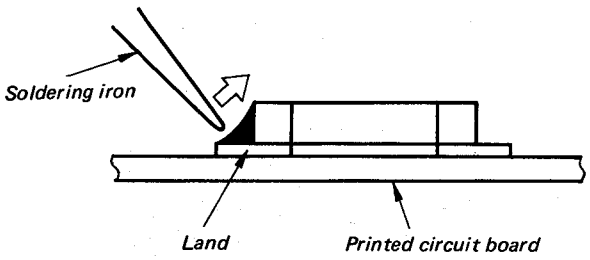
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.

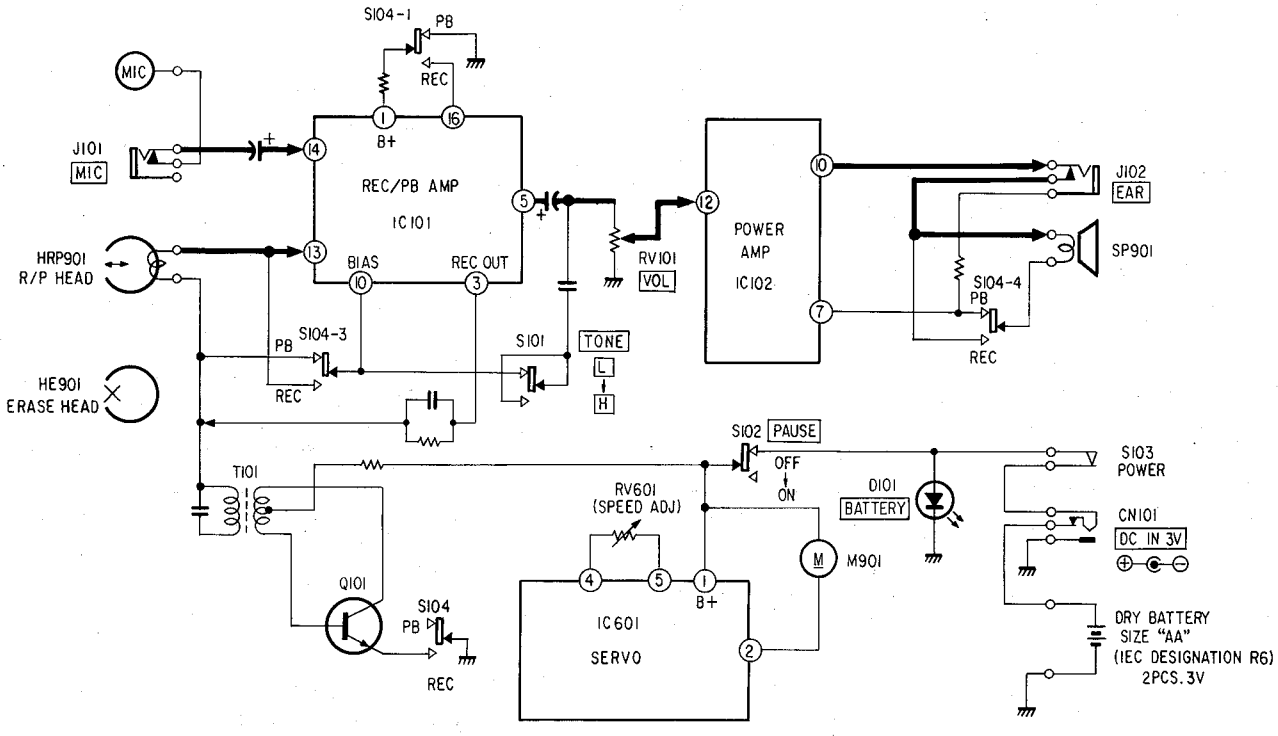


(3) Speedy soldering of electrode on the other side

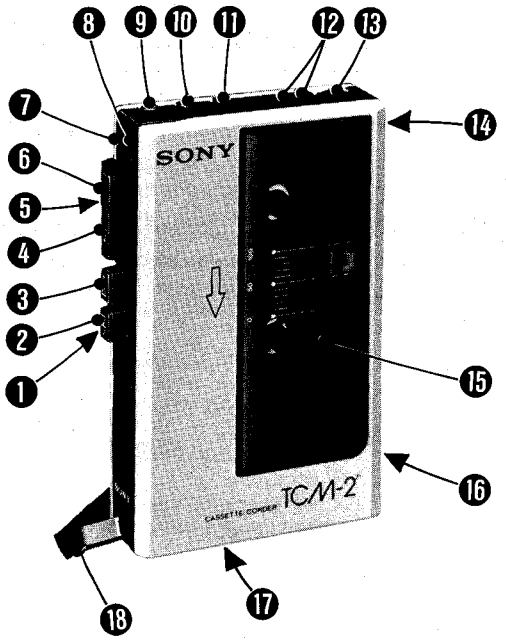
Solder the electrode on the other side in the same way as in (2) above.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



1-2. LOCATION OF CONTROLS

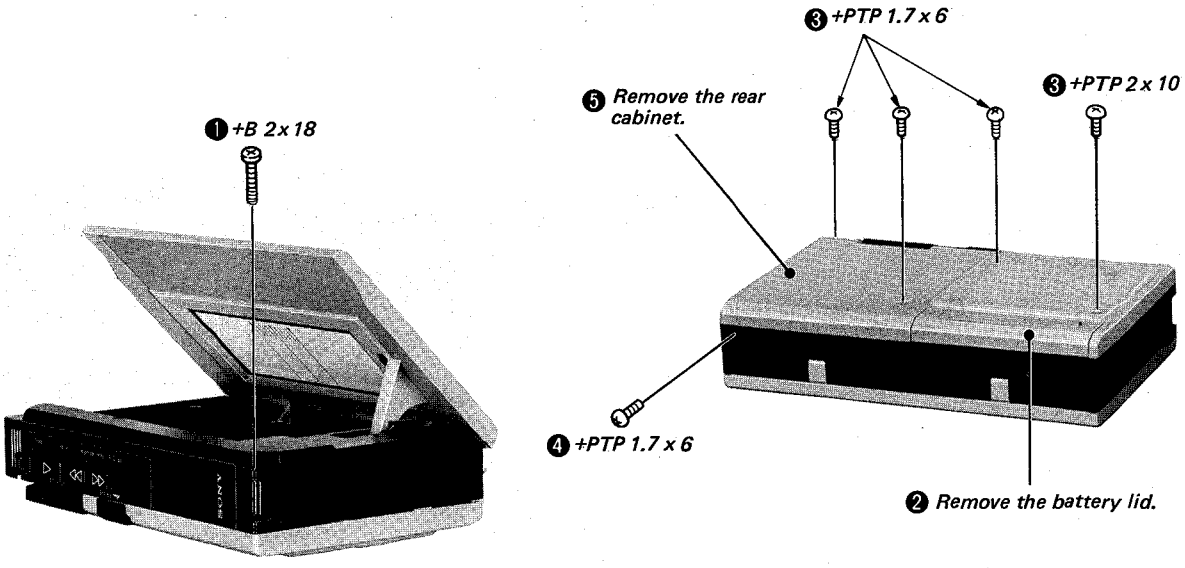


❶ ❚❚ PAUSE switch
❷ ▼▼ FF/CUE (fast forward/cue) button
❸ ▲▲ REW/REVIEW (rewind/review) button
❹ ▼ PLAY (playback) button
❺ ■⏏ STOP/EJECT button
❻ ● REC (record) button
❼ BATTERY indicator
❽ Built-in microphone
❾ MIC (microphone) input jack
❿ EAR (earphone) jack
⓫ TONE selector
⓬ TAPE COUNTER and reset button
⓭ VOL (volume) control
⓮ DC IN 3 V (external power input) jack (right side)
⓯ Cassette compartment
⓰ Battery compartment (rear)
⓱ Speaker (rear)
⓲ Carrying strap

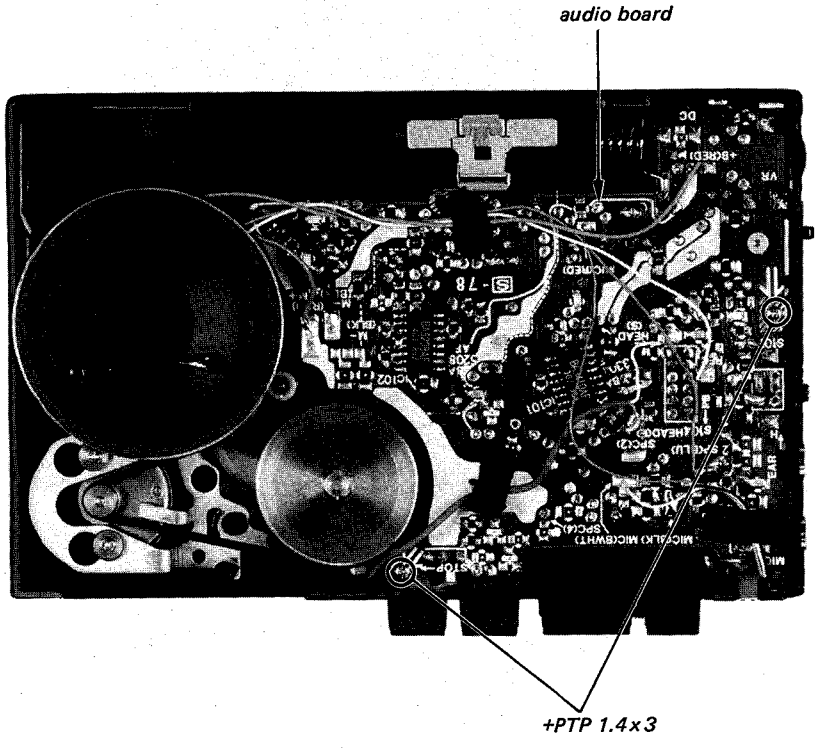
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

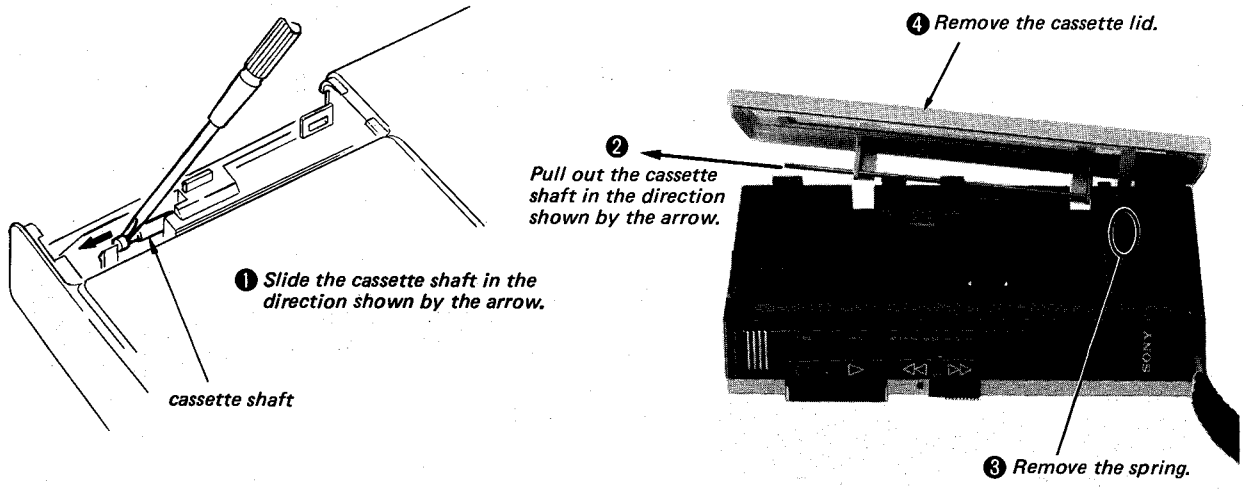
REAR CABINET



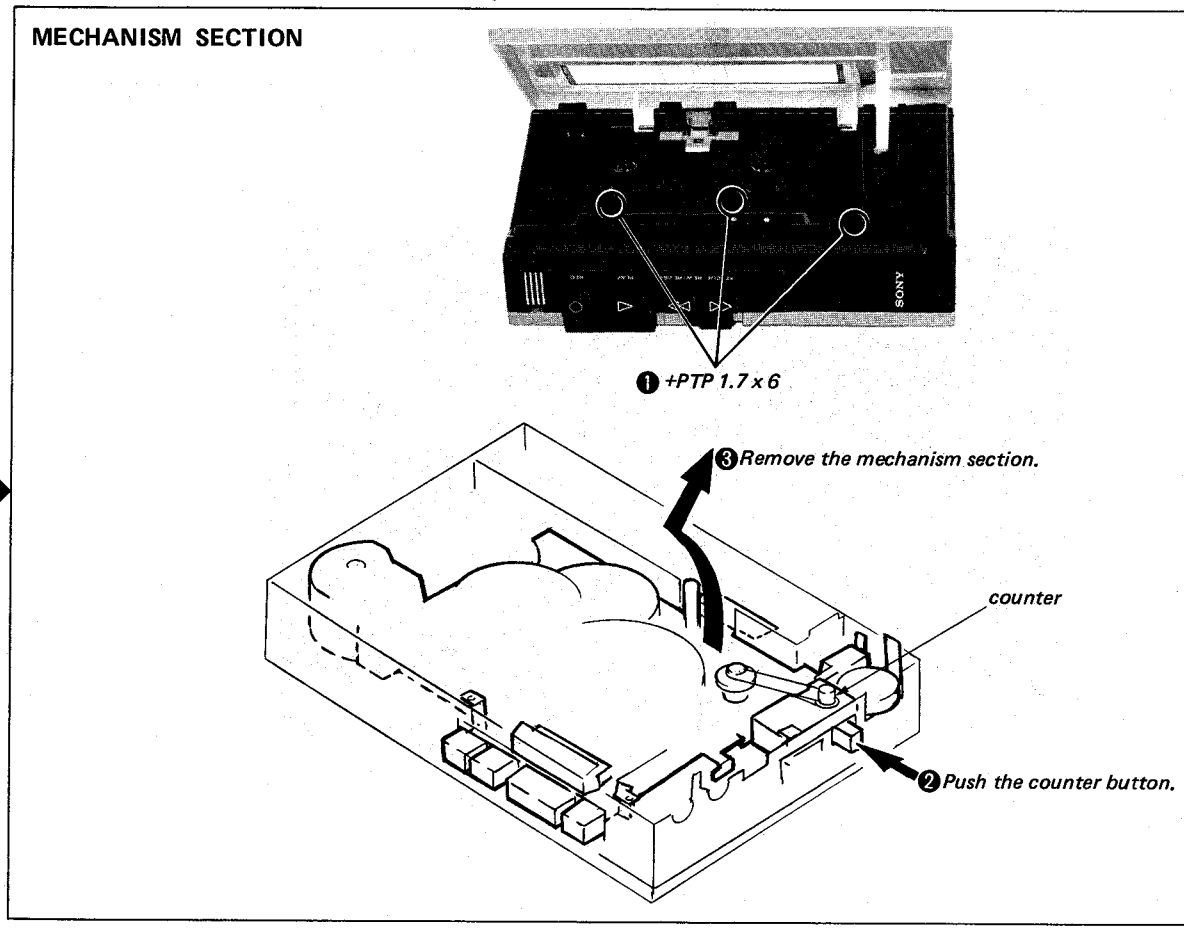
AUDIO BOARD



CASSETTE LID


❹ Remove the cassette lid.
❷ Pull out the cassette shaft in the direction shown by the arrow.
❶ Slide the cassette shaft in the direction shown by the arrow.
cassette shaft
❸ Remove the spring.

MECHANISM SECTION



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT AND MEASUREMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

power supply voltage : 3 V dc
SPEED CONTROL knob : center click

Torque Measurement

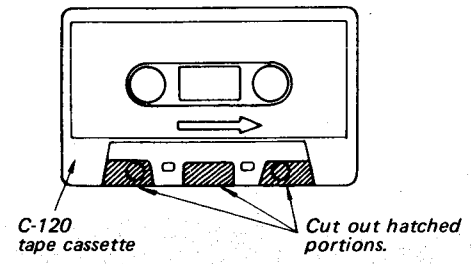
Torque	Meter Reading	Torque Meter
Forward	27 – 48 g•cm (0.37 – 0.66 oz•inch)	CQ-102C
Fast Forward and Rewind	5.5 – 75 g•cm (0.76 – 1.0 oz•inch)	CQ-201B
Back Tension	2 – 4 g•cm (0.027 – 0.055 oz•inch)	CQ-102C

Tape Tension Measurement

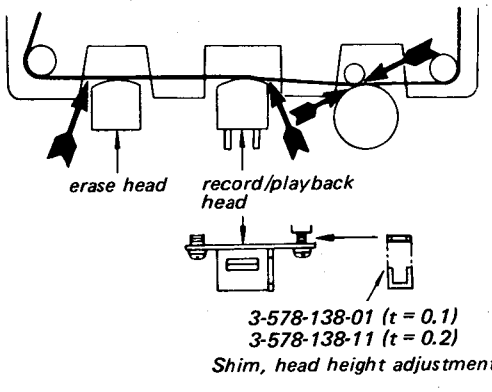
Meter	Meter Reading
CQ-403A	More than 100 g (3.53 oz)

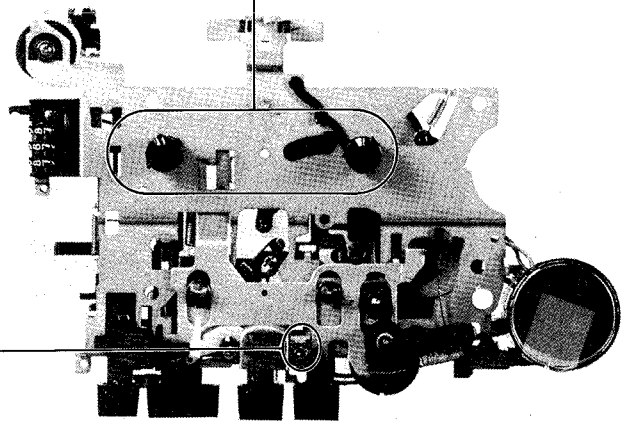
Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrow.



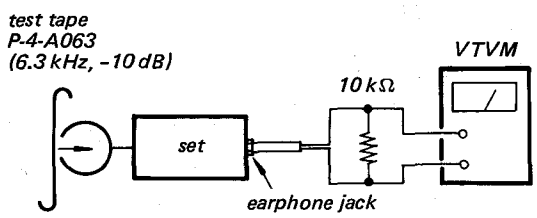


3-2. ELECTRICAL ADJUSTMENTS

Record/playback Head Azimuth Adjustment

Procedure:

1. Mode: playback

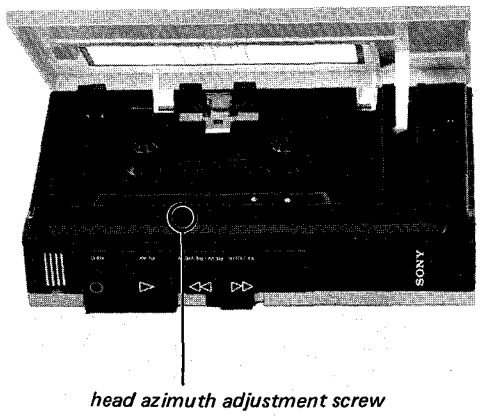


2. Turn the adjustment screw to obtain the maximum reading on VTVM.

   Note: Several peaks may appear, but take the maximum.

3. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location:

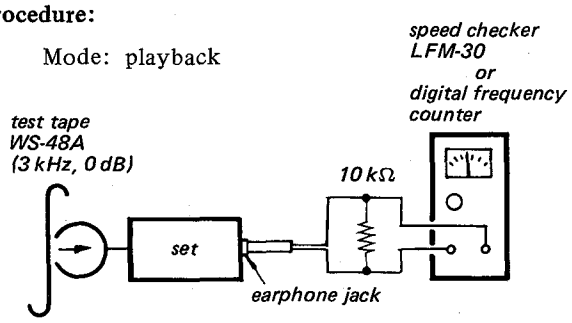


head azimuth adjustment screw

Tape Speed Adjustment

Procedure:

Mode: playback

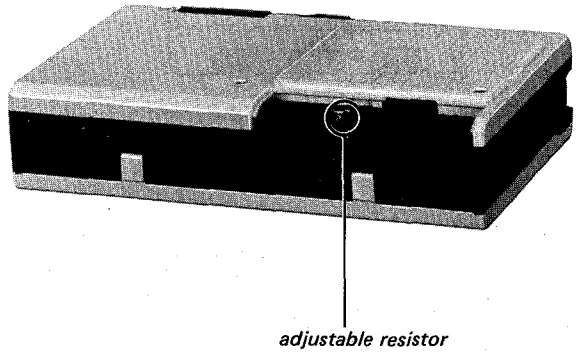


Specification:

Speed checker	Digital frequency counter
±2%	2,940 – 3,060 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

Adjustment Location:

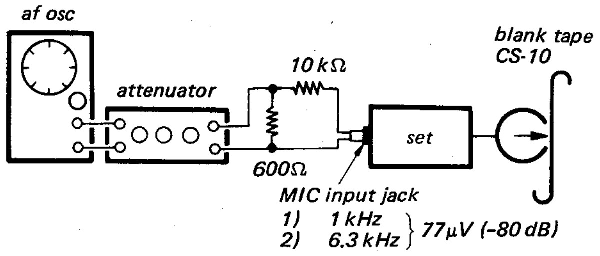


adjustable resistor

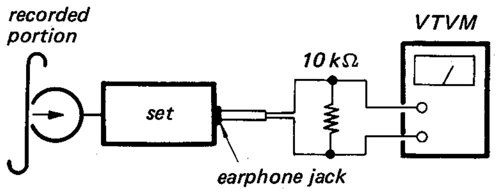
Record Bias Adjustment

Procedure:

1. Mode: record



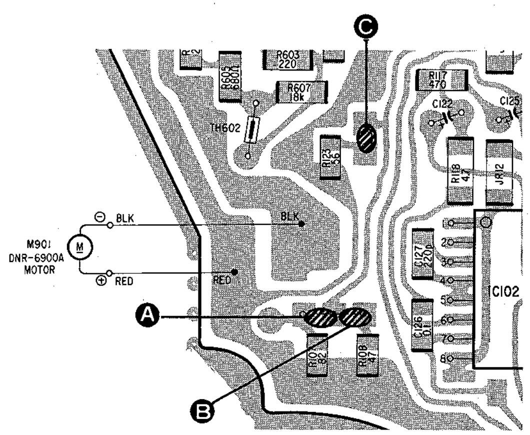
2. Mode: playback



1) Play back the 1 kHz signal. Adjust the VOLUME knob to obtain 0.25 V (-10dB) reading on the VTVM.

2) Play back the 6.3kHz signal. Adjust the pattern connection (Ⓐ or Ⓑ or Ⓒ) to obtain 0.18 – 0.35V (-13 – -7 dB) reading on the VTVM. Repeat the procedures 1 and 2 for best results.

Adjustment Location: Audio Board

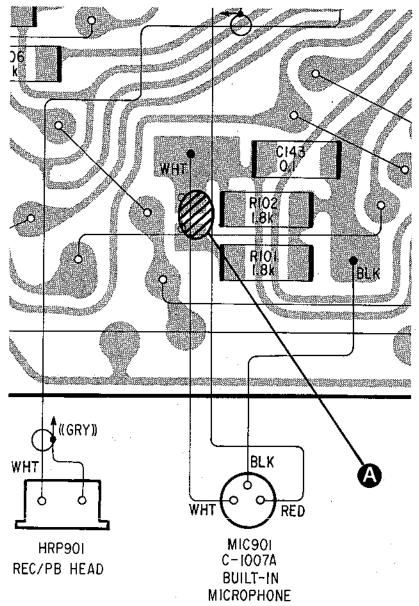


Microphone Sensitivity Adjustment

When replacing the microphone, perform this adjustment.

Mark of Microphone	Pattern Connection Ⓐ
BLACK	SHORTED
RED	OPEN

Adjustment Location: Audio Board

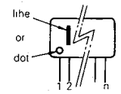


pattern connection	6.3kHz VTVM reading
Ⓐ Ⓑ Ⓒ	down ↑
Ⓐ Ⓑ	
Ⓐ Ⓒ	
Ⓑ	
Ⓒ	
Ⓐ	↓ up

MEMO

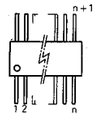
● Semiconductor Lead Layouts

LA5523



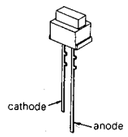
(Marking side view)

BA3410AF
BA5208AF

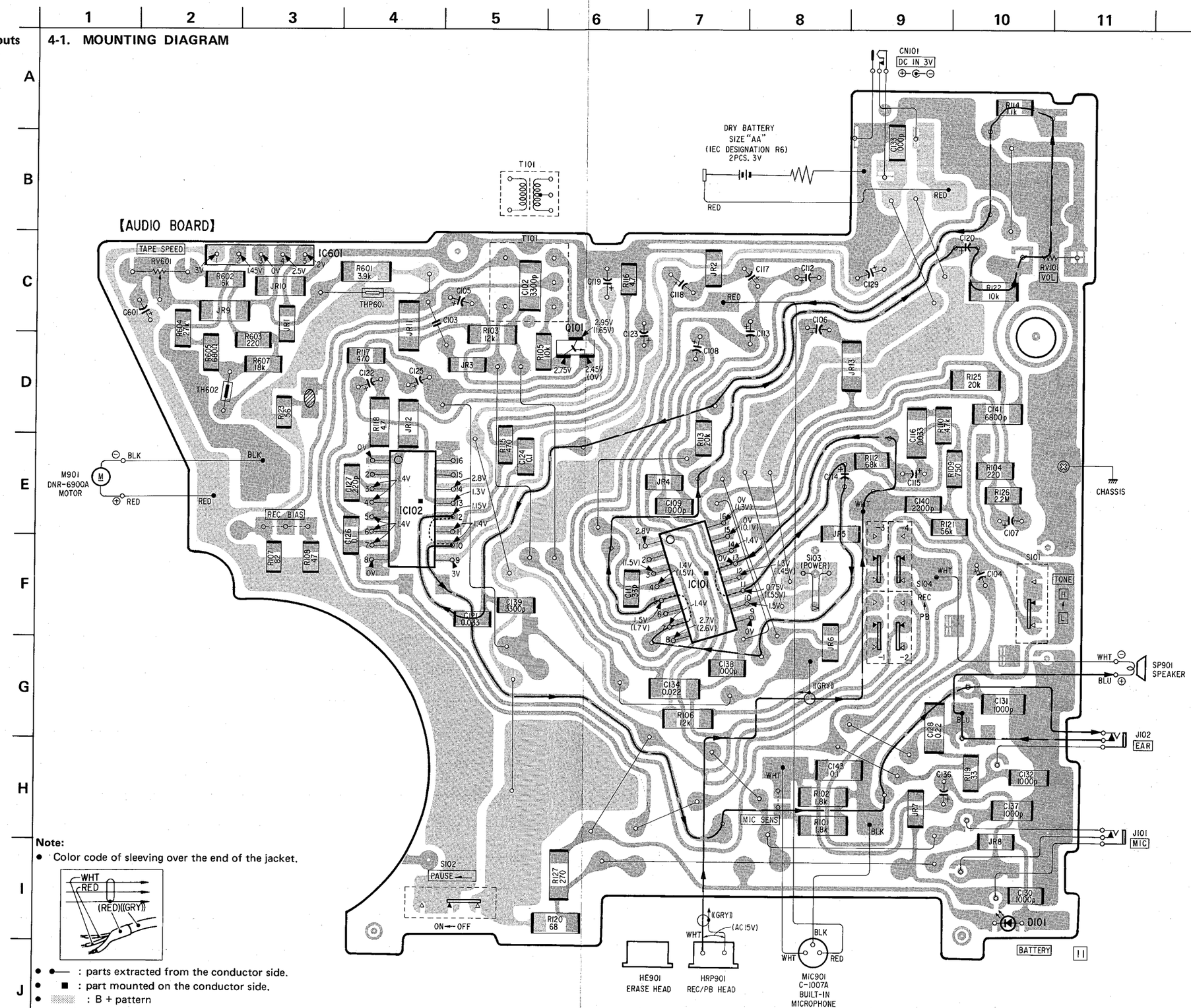


2SC1623-L7

SLB-23UR27



4-1. MOUNTING DIAGRAM



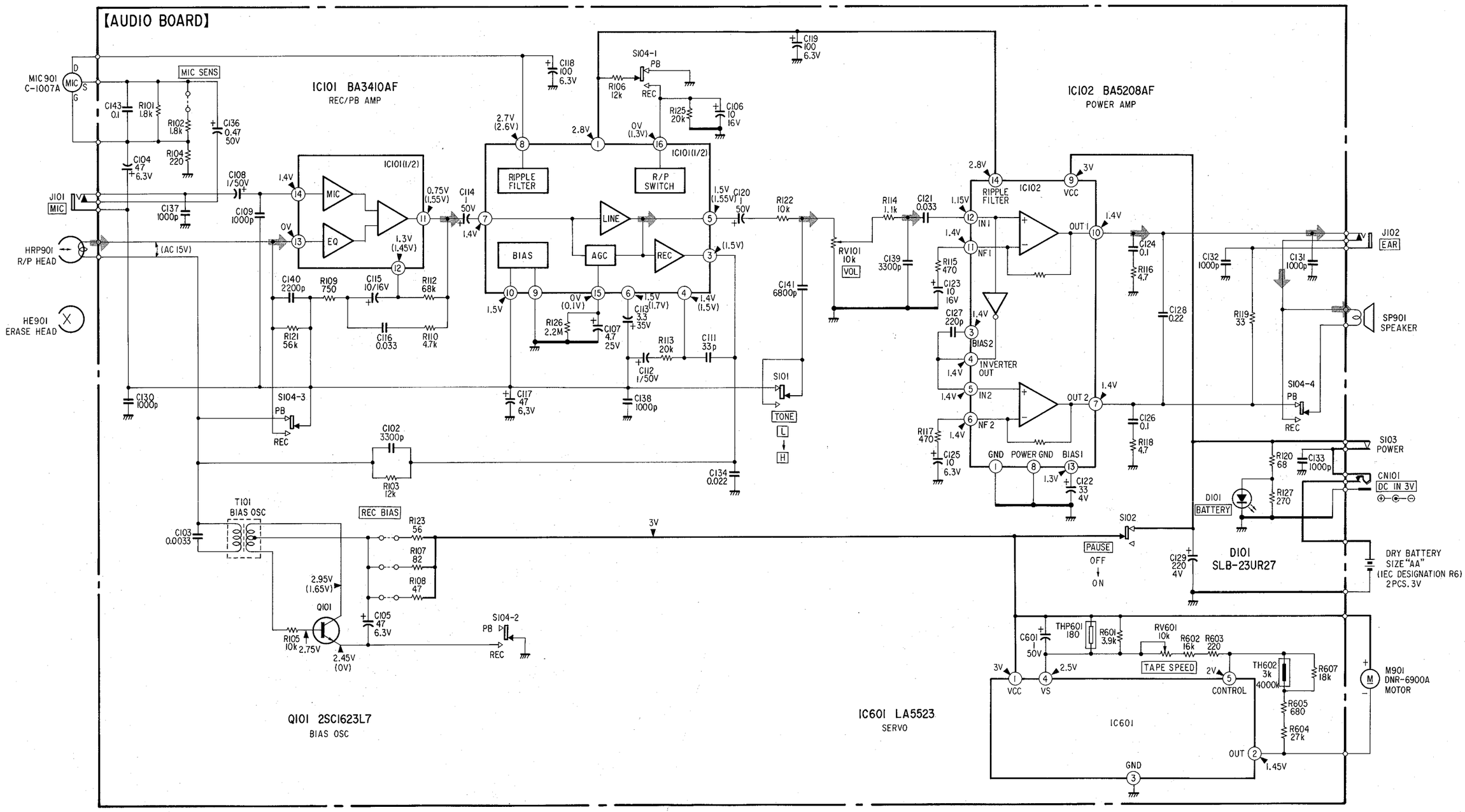
Q · IC	D
IC601	
Q101	
IC102	
IC101	
	101

Note:

- Color code of sleeving over the end of the jacket.

- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ▒ : B + pattern
- ▬▶▬ : signal path

4-2. SCHEMATIC DIAGRAM



Note: Voltages are measured with a VOM (50kΩ/V).

Note:

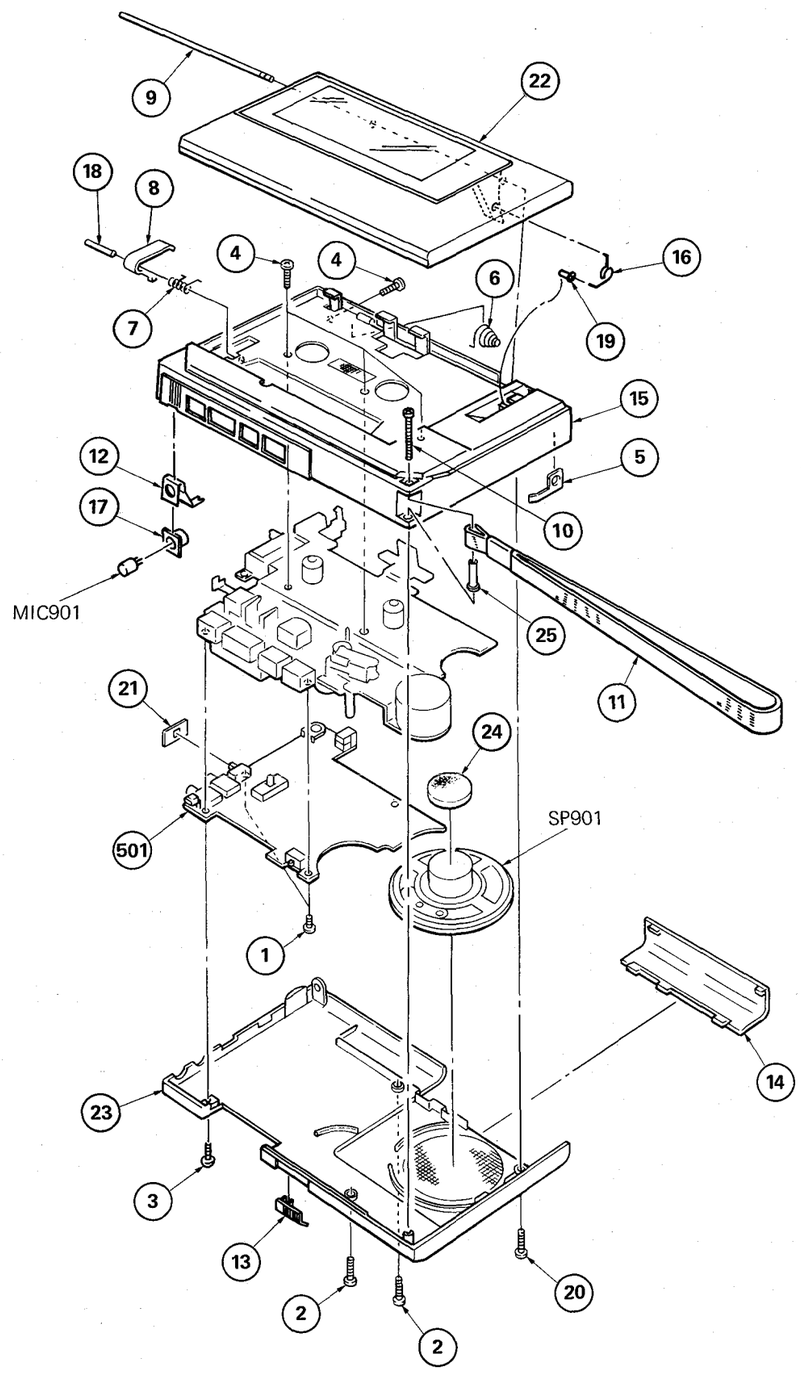
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/10 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- ▭ : panel designation.
- ⇒ : signal path.
- ▭ : adjustment for repair.
- ——— : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
  no mark: playback
  ( ) : record
- AC voltage readings in the bias oscillator with a oscilloscope.
- Total current is measured with no cassette installed.
- Switches

Ref. No.	Switch	Position
S101	TONE	LOW
S102	PAUSE	OFF
S103	POWER	OFF
S104	REC/PB	PB

SECTION 5

EXPLODED VIEWS AND PARTS LIST

(1)



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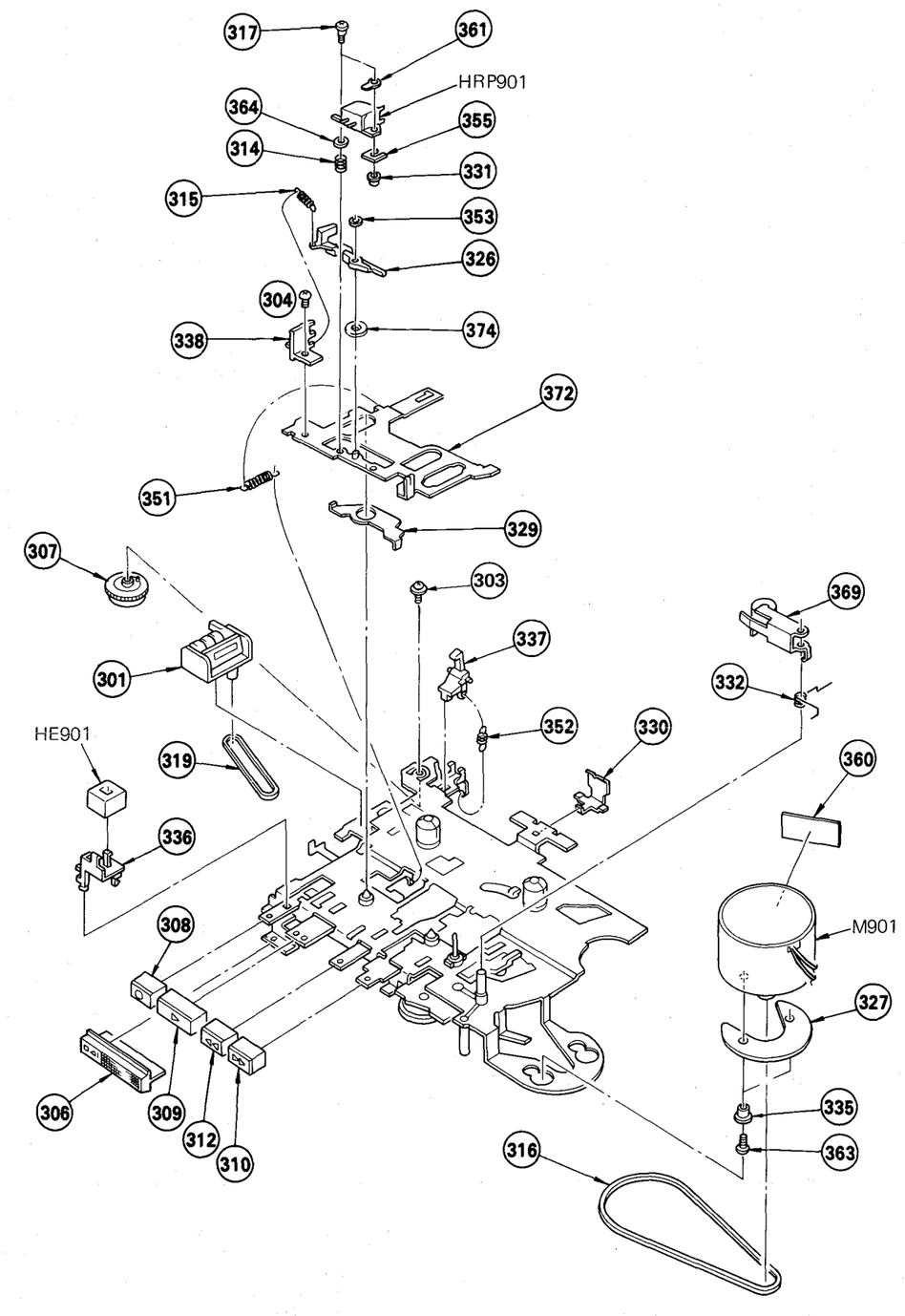

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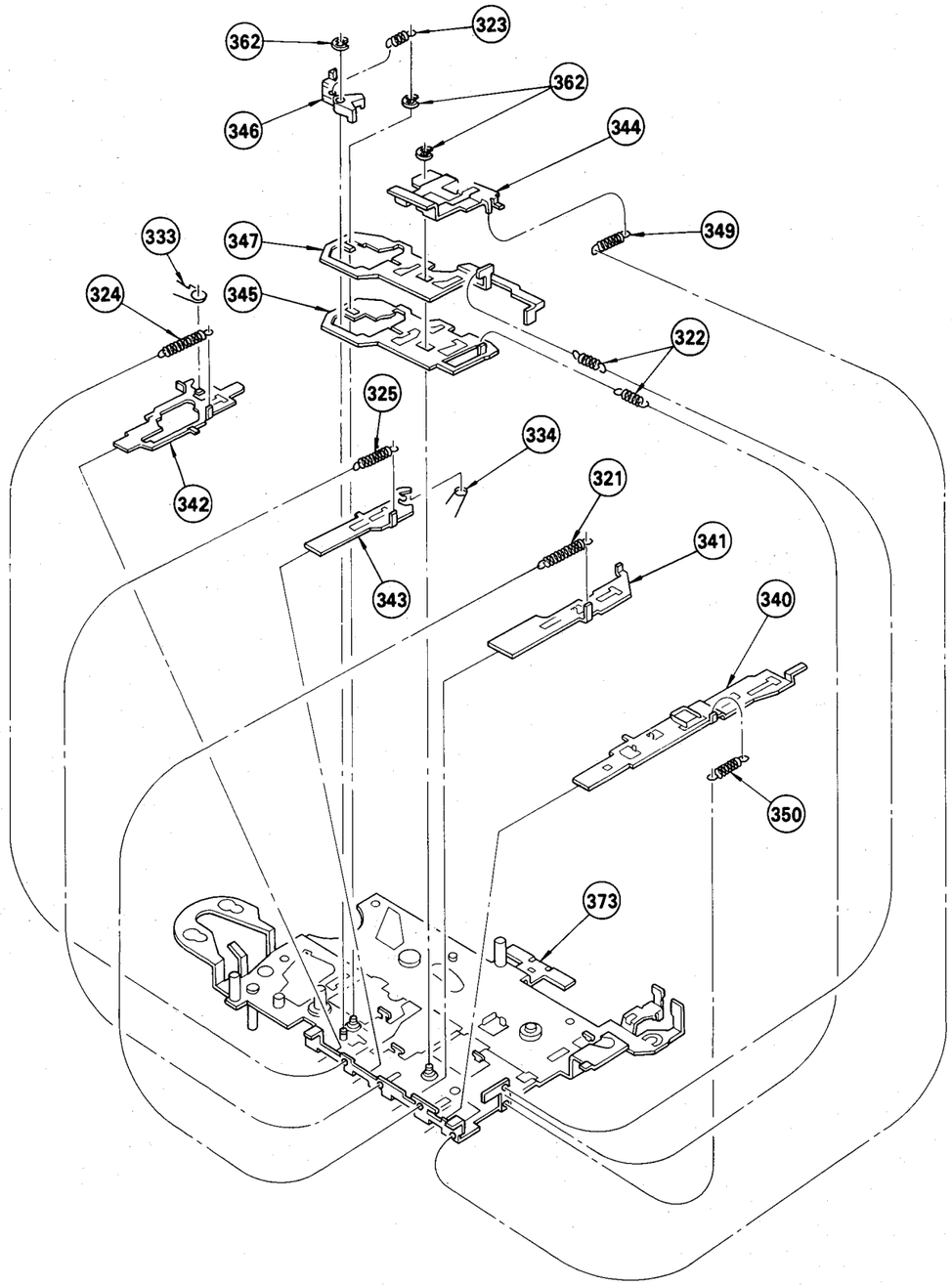
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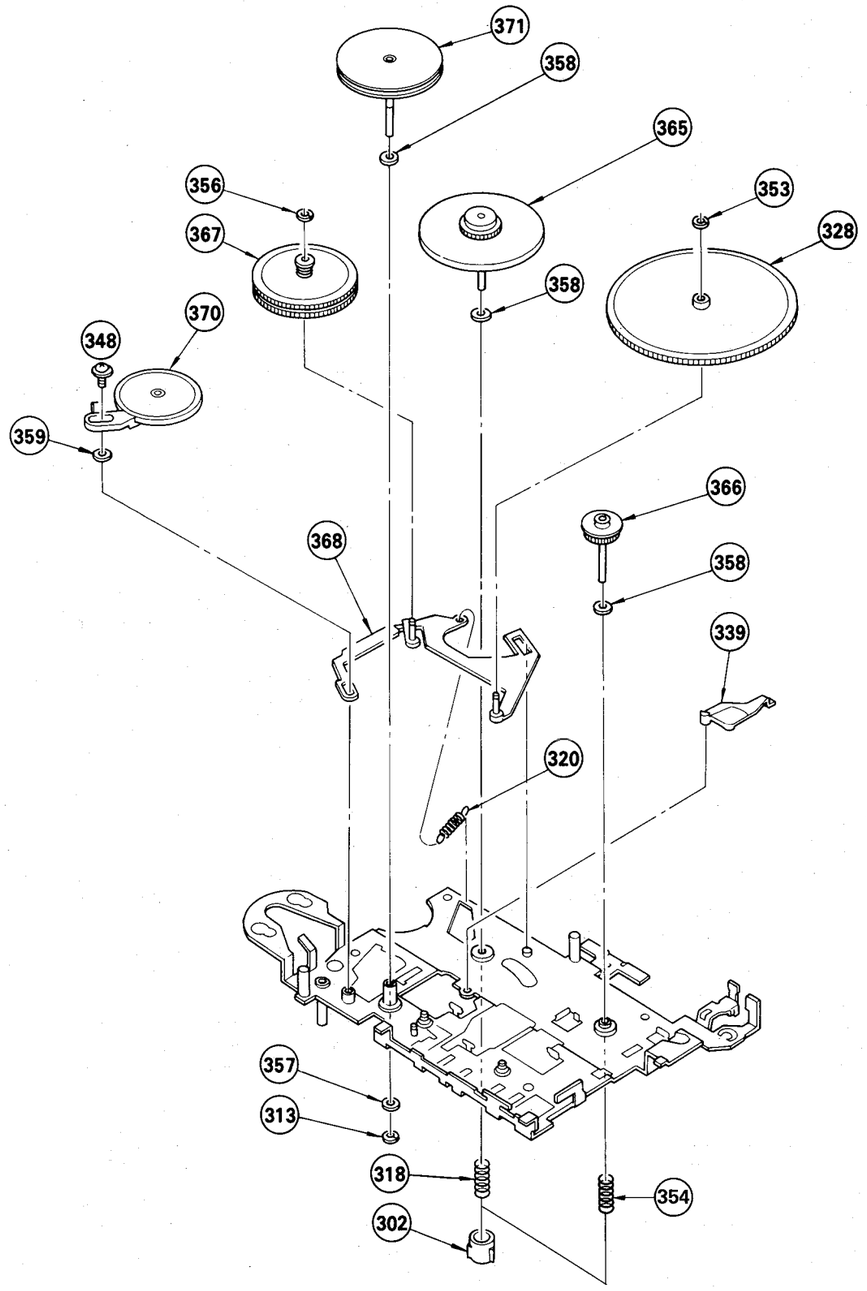
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GENERAL SECTION

No.	Part No.	Description
1	3-318-202-01	SCREW (M3) (1.4X3), TAPPING
2	3-318-203-21	SCREW, TAPPING
3	3-318-204-21	SCREW (M1.7X6), TAPPING
4	3-318-204-31	SCREW (M1.7X6), TAPPING
5	3-318-209-01	TERMINAL BOARD, PLUS
6	3-318-210-01	SPRING
7	3-318-215-01	SPRING
8	3-321-022-01	LEVER, EJECT
9	3-320-901-01	SHAFT, CASSETTE
10	3-320-919-01	SCREW (+B 2X18)
11	3-320-908-01	STRAP, HAND
12	*3-320-909-01	BRACKET, MICROPHONE
13	3-320-913-01	KNOB, PAUSE
14	3-320-914-01	LID, BATTERY CASE
15	3-320-915-01	CABINET (FRONT)
16	3-321-002-01	SPRING
17	3-574-761-00	HOLDER, MICROPHONE
18	3-703-357-06	PIN, PARALLEL (DIA. 1.6X14)
19	7-623-612-01	EYELET, 1.5X4
20	7-685-106-14	SCREW +P 2X10 TYPE2 NON-SLIT
21	9-911-863-XX	PLATE, BLIND
22	X-3320-901-1	LID ASSY, CASSETTE
23	3-320-916-01	CABINET (REAR)
24	9-911-844-XX	CUSHION, SPEAKER
25	3-320-918-01	SPACER, STRAP

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
51	3-320-902-01	CUSHION, 4 GANG
52	3-320-903-01	SLEEVE, 4 GANG
53	3-320-905-01	SPACER
54	3-773-903-11	(AEP,UK,E).....MANUAL, INSTRUCTION
55	3-773-903-21	(US,Canadian)...MANUAL, INSTRUCTION
56	3-773-903-31	(Canadian).....MANUAL, INSTRUCTION
57	3-773-903-41	(AEP).....MANUAL, INSTRUCTION
58	3-527-213-00	LABEL, SERIAL NUMBER
59	3-570-631-81	BAG, POLYETHYLENE
60	3-703-708-01	STICKER, SONY SYMBOL (18)
61	3-793-828-11	QUESTIONNAIRE

MECHANISM SECTION

No.	Part No.	Description
301	1-548-541-31	COUNTER
302	3-306-836-02	CAP, REEL, T
303	3-318-201-01	SCREW (B) (1.4X3), TAPPING
304	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
305	.....	
306	3-321-006-01	BUTTON, STOP
307	3-320-912-01	KNOB, CONTROL
308	3-318-221-01	BUTTON, REC
309	3-318-222-01	BUTTON, PLAY
310	3-318-223-01	BUTTON, FF
311	.....	
312	3-318-228-01	BUTTON, REW
313	3-318-236-01	WASHER, POLY, SLIT
314	3-318-237-01	SPRING, COMPRESSION
315	3-318-238-01	SPRING, TENSION
316	3-318-239-01	BELT
317	3-318-240-01	SCREW (1.4), SPECIAL
318	3-318-241-01	SPRING, COMPRESSION
319	3-318-242-01	BELT
320	3-318-243-01	SPRING, TENSION
321	3-318-246-01	SPRING, TENSION
322	3-318-248-01	SPRING, TENSION
323	3-318-249-01	SPRING, TENSION
324	3-318-250-01	SPRING, TENSION
325	3-318-251-01	SPRING, TENSION
326	3-318-252-01	ARM, DETECTION
327	3-318-254-01	CUSHION, MOTOR
328	3-318-265-01	GEAR (B), FR
329	*3-318-267-01	LEVER, CR
330	3-318-269-01	SPRING
331	3-318-309-01	SPACER, HEAD
332	3-318-275-01	SPRING
333	3-318-276-01	SPRING, FF
334	3-318-277-01	SPRING, REW
335	3-318-310-	COLLAR, MOTOR
336	3-318-285-01	BRACKET, ERASE HEAD
337	3-318-286-01	LEVER, ERASING PROTECTION
338	3-318-287-01	GUIDE, TAPE
339	3-318-288-01	ARM, FF
340	*3-318-289-01	LEVER, REC
341	*3-318-290-01	LEVER, PLAY
342	3-318-291-01	LEVER, FR
343	3-318-292-01	LEVER, REW
344	*3-318-293-01	LEVER, STOP
345	*3-318-294-01	PLATE, LOCK

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MECHANISM SECTION

No.	Part No.	Description
346	3-318-296-01	LEVER, SHUT-OFF
347	3-318-300-01	LEVER, SWITCH
348	3-318-324-01	BUSHING, IDLER LEVER
349	3-547-669-00	SPRING, TENSION
350	3-318-247-01	SPRING, TENSION
351	3-565-927-00	SPRING, TENSION
352	3-318-336-01	SPRING, TENSION
353	3-570-615-00	POLY-WASHER (DIA.1.2)
354	3-318-334-01	SPRING, COMPRESSION
355	3-578-138-01	SEAM
355	3-578-138-11	SEAM
356	3-578-265-11	WASHER, STOPPER
357	3-701-437-01	WASHER
358	3-701-437-11	WASHER
359	3-827-323-11	WASHER (DIA. 3.1)
360	3-831-441-XX	CUSHION
361	7-623-505-01	LUG, 2
362	7-624-101-01	RING, RETAINING E-1.2
363	7-627-552-47	SCREW, PRECISION +P 1.7X4
364	7-688-001-01	W 2, SMALL
365	X-3318-202-1	CLUTCH ASSY
366	X-3318-204-1	GEAR ASSY, REW
367	X-3318-207-1	GEAR (A) ASSY, FR
368	X-3318-208-1	LEVER ASSY, FR
369	A-3110-010-A	PINCH LEVER ASSY
370	X-3318-210-1	LEVER ASSY, FWD IDLER
371	X-3318-211-1	FLYWHEEL ASSY
372	X-3318-213-1	CHASSIS ASSY, HEAD
373	*X-3318-214-1	CHASSIS ASSY, MECHANICAL
374	3-308-472-21	WASHER (C)(t=0.075mm)
374	3-308-472-31	WASHER (C)(t=0.125mm)

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	*A-3015-287-A	PC BOARD ASSY, AU			
C102	1-163-053-00	CERAMIC CHIP	0.0033MF	10%	50V
C103	1-108-371-00	MYLAR	0.0033MF	10%	100V
C104	1-123-647-00	ELECT	47MF	20%	6.3V
C105	1-124-224-00	ELECT	47MF	20%	6.3V
C106	1-123-617-00	ELECT	10MF	20%	16V
C107	1-123-616-00	ELECT	4.7MF	20%	25V
C108	1-123-611-00	ELECT	1MF	20%	50V
C109	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C111	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C112	1-123-611-00	ELECT	1MF	20%	50V
C113	1-123-614-41	ELECT	3.3MF	20%	35V
C114	1-124-255-00	ELECT	1MF	20%	50V
C115	1-124-233-00	ELECT	10MF	20%	16V
C116	1-163-074-00	CERAMIC CHIP	0.033MF	10%	25V
C117	1-123-647-00	ELECT	47MF	20%	6.3V
C118	1-123-661-00	ELECT	100MF	20%	6.3V
C119	1-123-661-00	ELECT	100MF	20%	6.3V
C120	1-123-611-00	ELECT	1MF	20%	50V
C121	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C122	1-124-431-00	ELECT	33MF	20%	4V
C123	1-123-617-00	ELECT	10MF	20%	16V
C124	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C125	1-124-435-00	ELECT	10MF	20%	6.3V
C126	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C127	1-163-001-00	CERAMIC CHIP	220PF	10%	50V
C128	1-163-081-00	CERAMIC CHIP	0.22MF		25V
C129	1-123-827-00	ELECT	220MF	20%	4V
C130	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C131	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C132	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C133	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C134	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V
C136	1-124-465-00	ELECT	0.47MF	20%	50V
C137	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C138	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
C139	1-163-028-91	CERAMIC CHIP	0.0033MF		50V
C140	1-163-013-00	CERAMIC CHIP	0.0022MF	10%	50V
C141	1-163-070-91	CERAMIC CHIP	0.0068MF		50V
C143	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C601	1-123-611-00	ELECT	1MF	20%	50V
D101	8-719-908-16	DIODE SLB-23UR27			
HE901	8-658-096-02	HEAD, ERASE EBF5-36			
HRP901	8-829-336-35	HEAD (PP134-36T)			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
IC101	8-759-910-97	IC BA3410AF			
IC102	8-759-910-71	IC BA5208AF			
IC601	8-759-801-12	IC LA5523			
J101	1-507-921-00	JACK			
J102	1-507-921-00	JACK			
J103	1-507-723-00	JACK, EXTENTION POWER			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W
JR5	1-216-295-00	METAL CHIP	0	5%	1/10W
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W
JR9	1-216-296-00	METAL CHIP	0	5%	1/8W
JR10	1-216-296-00	METAL CHIP	0	5%	1/8W
JR11	1-216-296-00	METAL CHIP	0	5%	1/8W
JR12	1-216-296-00	METAL CHIP	0	5%	1/8W
JR13	1-216-296-00	METAL CHIP	0	5%	1/8W
M901	8-835-105-01	MOTOR, DC (DNR-6900A)			
MIC901	8-814-189-31	MICROPHONE, BUILT-IN (C-1007A)			
Q101	8-729-102-67	TRANSISTOR 2SC1623-L7			
R101	1-216-204-00	METAL CHIP	1.8K	5%	1/8W
R102	1-216-204-00	METAL CHIP	1.8K	5%	1/8W
R103	1-216-224-00	METAL CHIP	12K	5%	1/8W
R104	1-216-033-00	METAL CHIP	220	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-224-00	METAL CHIP	12K	5%	1/8W
R107	1-216-023-00	METAL CHIP	82	5%	1/10W
R108	1-216-017-00	METAL CHIP	47	5%	1/10W
R109	1-216-046-00	METAL CHIP	750	5%	1/10W
R110	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R112	1-216-093-00	METAL CHIP	68K	5%	1/10W
R113	1-216-080-00	METAL CHIP	20K	5%	1/10W
R114	1-216-050-00	METAL CHIP	1.1K	5%	1/10W
R115	1-216-041-00	METAL CHIP	470	5%	1/10W
R116	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R117	1-216-041-00	METAL CHIP	470	5%	1/10W
R118	1-216-142-00	METAL CHIP	4.7	5%	1/8W
R119	1-216-013-00	METAL CHIP	33	5%	1/10W
R120	1-216-170-00	METAL CHIP	68	5%	1/8W
R121	1-216-091-00	METAL CHIP	56K	5%	1/10W
R122	1-216-222-00	METAL CHIP	10K	5%	1/8W

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R123	1-216-019-00	METAL CHIP	56	5%	1/10W
R125	1-216-229-00	METAL CHIP	20K	5%	1/8W
R126	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R127	1-216-184-00	METAL CHIP	270	5%	1/8W
R601	1-216-212-00	METAL CHIP	3.9K	5%	1/8W
R602	1-216-078-00	METAL CHIP	16K	5%	1/10W
R603	1-216-033-00	METAL CHIP	220	5%	1/10W
R604	1-216-083-00	METAL CHIP	27K	5%	1/10W
R605	1-216-045-00	METAL CHIP	680	5%	1/10W
R607	1-216-079-00	METAL CHIP	18K	5%	1/10W
RV101	1-228-121-00	RES, VAR, CARBON 10K (VOLUME)			
RV601	1-230-510-11	RES, ADJ, CARBON 10K			
S101	1-554-123-00	SWITCH, SLIDE (TONE)			
S102	1-553-510-00	SWITCH, SLIDE (PAUSE)			
S103	1-554-297-00	SWITCH, LEAF (POWER)			
S104	1-554-745-11	SWITCH, SLIDE (REC/PB)			
SP901	1-503-322-11	SPEAKER			
T101	1-433-251-00	TRANSFORMER, BIAS OSCILLATOR			
TH602	1-806-717-00	THERMISTOR			
THP601	1-806-881-11	THERMISTOR (POSITIVE)			

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